

29<sup>th</sup>

CROATIAN MEETING of  
**CHEMISTS & CHEMICAL ENGINEERS**

7th symposium Vladimir Prelog

**HSKIKI<sup>XXIX</sup>**

Split \_\_\_\_\_ **2.-5.9.25.**  
\_\_\_\_\_ Campus of the University of Split

\_\_\_\_\_ **Programme**



**HKi**  
HRVATSKO DRUŠTVO  
KEMIJSKIH INŽENJERA I  
TEHNOLOGA





Dear Colleagues, Partners and Friends,

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On behalf of the Scientific and Organizing Committee, it gives me a great privilege and pleasure to welcome you all to the 29<sup>th</sup> Croatian Meeting of Chemists and Chemical Engineers, which will be held from September 2 to 5, 2025 in Split, Croatia.

Approximately 400 to 500 chemists and chemical engineers from universities, research institutes and industry are expected to participate and to contribute to the Meeting with posters and oral presentations.

The Meeting will provide an interdisciplinary platform for leading academic scientists, researchers, and research scholars to present and share their experiences and research results on all aspects of chemistry and related fields in a friendly, interactive and collaborative atmosphere, while discussing the latest achievements and novel approaches, the most recent innovations, trends as well as challenges and adopted solutions.

An exhibition of chemical industrial and laboratory equipment and instrumentation, computer software and hardware, literature, and other relevant material, will be organized as an accompanying manifestation.

We will be glad to host you at this Meeting as we believe, other participants and coming delegates would love to hear and learn from your experience.

We look forward to welcoming you at the 29HSKIKI in Split!



*Prof. Mirta Rubčić, chair*





## ORGANIZERS



Croatian Chemical Society  
Croatian Society of Chemical Engineers

## SCIENTIFIC AND ORGANISING COMMITTEE

Mirta Rubčić (chair)	Marijana Hranjec	Andrea Pehar
Marko Rogošić (co-chair)	Dražan Jozić	Ivana Radojčić Redovniković
Nikola Cindro (secretary)	Petar Kassal	Rosana Ribić
Marija Alešković	Zoran Kokan	Željka Soldin
Igor Dejanović	Mirna Mandarić	Vesna Tomašić
Fabio Faraguna	Olgica Martinis	Krunoslav Žižek
Tanja Gazivoda Kraljević	Danijela Musija	
Matija Gredičak	Ivan Nemet	

## INTERNATIONAL SCIENTIFIC BOARD

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## LOCAL ORGANISING COMMITTEE

Maja Biočić Šormaz, Perica Bošković, Franko Burčul, Azra Đulović, Matko Erceg,  
Miće Jakić, Igor Jerković, Lea Kukoč-Modun, Zvonimir Marijanović, Ivana Mitar,  
Ivona Nuić, Renata Odžak, Sanja Perinović Jozić, Sanja Radman, Sanja Tipurić  
Spužević, Marina Tranfić Bakić, Nives Vladislavić

## CONFERENCE VENUE

University of Split  
Faculty of Chemistry and Technology (KTF), and Faculty of Science (PMF)  
Ruđera Boškovića 33, 21000 Split

<https://29hskiki.hkd.hr/>



# AUSPICES



Under the high auspices of Zoran Milanović,  
President of the Republic of Croatia



Under the special auspices of the  
Croatian Academy of Sciences and Arts

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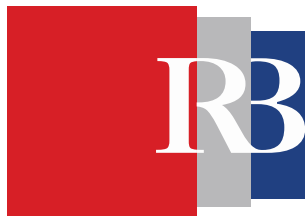
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# PLENARY LECTURERS



**Dr Sigrid Bernstorff**

SAXS group, Elettra – Sincrotrone Trieste, Trieste, Italy

**Professor Pablo Domínguez de María**

Sustainable Momentum, S.L. (SusMom), Las Palmas de Gran Canaria, Spain

**Professor Jiří Kaleta**

Institute of Organic Chemistry and Biochemistry of the Czech Academy of Sciences, Prague, Czech Republic

**Professor Spas D. Kolev**

School of Chemistry, University of Melbourne, Australia

**Professor Boelo Schuur**

Faculty of Science and Technology (TNW), Department of Chemical Engineering (DCE), Universiteit Twente, Netherlands

**Professor Martin D. Smith**

Chemistry Research Laboratory, University of Oxford, UK

**Professor Vladislav Tomišić**

Faculty of Science, Department of Chemistry, University of Zagreb, Croatia



## INVITED LECTURERS

Professor Ana Vrsalović Presečki

Associate Professor Boštjan Genorio

Associate Professor Torsten Mayr, Dipl.-Chem., Dr. rer. nat.

Associate Professor Vilko Mandić

Professor Lidija Čurković

Associate Professor Ivana Grčić

Gordana Pehnac, PhD, Senior Research Associate

Ivana Brekalo, PhD, Research Associate

Associate Professor Aleksandra Maršavelski

Professor Ines Primožič

Dr. Xavier Guinchard

Associate Professor Gordan Horvat

Nikola Basarić, PhD, Senior scientist with tenure

Nađa Došlić, PhD, Senior scientist with tenure

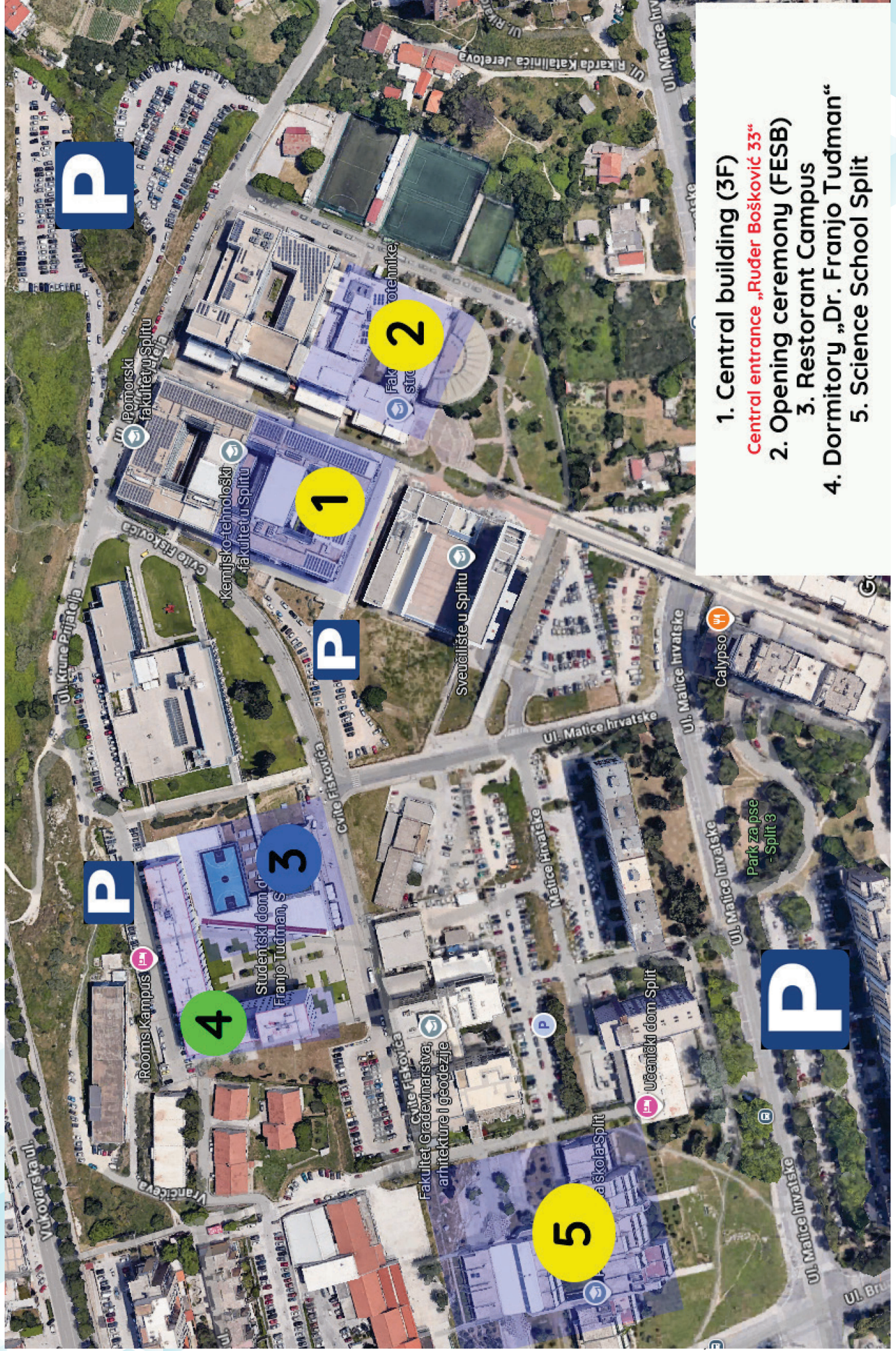
Professor Ante Kolak

Associate Professor Vladimir Stilinović

Associate Professor Milan Nikolić

Ana Ratković, PhD





1. Central building (3F)  
Central entrance „Ruder Bošković 33“
2. Opening ceremony (FESB)
3. Restorant Campus
4. Dormitory „Dr. Franjo Tudman“
5. Science School Split





# Tuesday, September 2, 2025

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**14.00 – 16.00** Registration Atrium of 3F ①

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**16.00 – 16.30** Opening ceremony Lecture Hall A100 of FESB ②

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**16.30 – 17.30** ***PLENARY LECTURE***  
**Spas D. Kolev**  
ECO-FRIENDLY CHEMICAL SEPARATION BASED ON POLYMER  
INCLUSION MEMBRANES AND BEAD  
*Chair:* Lea Kukoč-Modun Lecture Hall A100 of FESB ②

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**17.30 – 18.30** Sponsors Lecture Hall A100 of FESB ②

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**19.00 – 21.00** Welcome reception Lecture Hall A100 of FESB ②

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# Wednesday, September 3, 2025

8.00 – 9.00	Registration	Atrium of 3F ①
9.00 – 10.00	<b>PLENARY LECTURE</b> <b>Sigrid Bernstorff</b> SMALL ANGLE SCATTERING AND ITS APPLICATION IN CHEMISTRY, LIFE AND MATERIAL SCIENCE <i>Chair: Dražan Jozić</i>	<b>A-02 (3F)</b>
10.00 – 10.30	Coffee Break	
10.30 – 12.30	<b>A – CHEMISTRY</b> <i>Chair: Vladislav Tomišić</i>	<b>A-01 (3F)</b>
10.30 – 11.00	<b>INVITED LECTURE</b> <b>Nađa Došlić</b> Modeling excited-state molecular dynamics with classical trajectories	
11.00 – 11.30	<b>INVITED LECTURE</b> <b>Aleksandra Maršavelski</b> Harnessing ancestral sequence reconstruction to engineer thermostable enzymes for plastic degradation	
11.30 – 12.30	<b>ORAL PRESENTATIONS (A – CHEMISTRY)</b> <i>Chair: Rosana Ribić</i>	<b>A-01 (3F)</b>
11.30 – 11.50	<b>Antonija Tomić</b> Influence of dpp3 inactivation on its interaction with the Kelch domain of KEAP1	
11.50 – 12.10	<b>Donna Danijela Dragun</b> Exploring pantoprazole–cyclodextrin interactions <i>via</i> coffee ring imaging and thermodynamic profiling/electrospinning technology in the development of medical applications	
12.10 – 12.30	<b>Ivana Kekez</b> Stabilization and structural characterization of metagenomic esterases for enhanced bioplastic degradation	



10.30 – 12.30	<b>B – CHEMICAL ENGINEERING AND BIOTECHNOLOGY</b> <i>Chair: Marko Rogošić</i>	<b>A-03 (3F)</b>
10.30 – 11.00	<b>INVITED LECTURE</b> <b>Ana Jurinjak Tušek</b> Artificial intelligence in biochemical engineering: application and future perspective	
11.00 – 11.30	<b>INVITED LECTURE</b> <b>Ana Vrsalović Presečki</b> Multienzyme systems in the production of nutraceuticals from renewable sources	
11.30 – 12.30	<b>ORAL PRESENTATIONS (B – CHEMICAL ENGINEERING AND BIOTECHNOLOGY)</b> <i>Chair: Krunoslav Žižek</i>	<b>A-03 (3F)</b>
11.30 – 11.50	<b>Želimir Kurtanjek</b> Causal AI modelling of chemical process plant	
11.50 – 12.10	<b>Antonija Čelan</b> Ultrasound vs. mechanical mixing in batch crystallization, comparison of key hydrodynamic parameters and effect on final product	
12.10 – 12.30	<b>Filip Car</b> Application of 3D-printing for production of ceramic monolithic catalysts for oxidation of aromatic volatile organic compounds	
10.30 – 12.30	<b>7<sup>th</sup> SYMPOSIUM VLADIMIR PRELOG</b> <i>Chair: Matija Gredičak</i>	<b>A-02 (3F)</b>
10.30 – 11.00	<b>INVITED LECTURE</b> <b>Ana Ratković</b> Photochemical strategies for the design of cholinesterase-targeting small-molecules	
11.00 – 11.30	<b>INVITED LECTURE</b> <b>Xavier Guinchard</b> Bifunctional chiral ligands for enantioselective catalysis <i>via</i> tethered counterion-directed catalysis	
11.30 – 12.30	<b>ORAL PRESENTATIONS (7<sup>th</sup> SYMPOSIUM VLADIMIR PRELOG)</b> <i>Chair: Matija Gredičak</i>	<b>A-02 (3F)</b>

11.30 – 11.50	<b>Marina Tranfić Bakić</b> Photoactive phenylboronic acid derivative: Synthesis and interactions with sialic acids	
11.50 – 12.10	<b>Gabriel Glotz</b> Phototruncation of cyanines	
12.10 – 12.30	<b>Marko Purić</b> Chiral multisubstituted binol–cyclopentadienyl ligands and their complexes with transition metals	
12.30 – 14.00	<b>Lunch</b>	
14.00 – 15.00	<b>PLENARY LECTURE</b> <b>Martin D. Smith</b> <i>CONTROLLING AXIAL CHIRALITY</i> Chair: Matija Gredičak	<b>A-02 (3F)</b>
15.00 – 15.30	<b>Coffee Break</b> Place	
15.00 – 16.30	<b>Poster presentations</b> Place	
17.00 – 18.30	<b>A – CHEMISTRY</b> Chair: Marina Tranfić Bakić	<b>A-02 (3F)</b>
17.00 – 17.30	<b>INVITED LECTURE</b> <b>Gordan Horvat</b> Ion-binding properties of linear and cyclic oligopeptides	
17.30 – 18.30	<b>ORAL PRESENTATIONS (A – CHEMISTRY)</b> Chair: Marina Tranfić Bakić	<b>A-02 (3F)</b>
17.30 – 17.50	<b>Laura Nuić</b> Azodioxy thin films <i>via</i> on-surface polymerization of aromatic dinitroso compounds	
17.50 – 18.10	<b>Mario Pajić</b> Uncovering the role of ABCs in the solid-state Suzuki-Miyaura reaction <i>via in situ</i> Raman monitoring	
18.10 – 18.30	<b>Matija Modrušan</b> Anion binding by phenylalanine and leucine cyclopeptides: thermodynamic and structural study	

17.00 – 18.30	<b>B – CHEMICAL ENGINEERING AND BIOTECHNOLOGY</b> <i>Chair: Krunoslav Žižek</i>	<b>A-01 (3F)</b>
17.00 – 17.30	<b>INVITED LECTURE</b> <b>Boštjan Genorio</b> “Green” graphene in electrocatalysis	
17.30 – 18.30	<b>ORAL PRESENTATIONS (B – CHEMICAL ENGINEERING AND BIOTECHNOLOGY)</b> <i>Chair: Zoran Mandić</i>	<b>A-01 (3F)</b>
17.30 – 17.50	<b>Hongwei Yu</b> Electrolyte engineering enables long-life in high-energy-density lithium metal batteries	
17.50 – 18.10	<b>Yunyun Luo</b> Interface-tailored separators via iCVD for lithium metal batteries with extended lifespan	
18.10 – 18.30	<b>Maris Minna Mathew</b> Nickel electrocatalysts for HER: Bridging material performance and data integrity	
17.00 – 18.30	<b>ORAL PRESENTATIONS (C – MATERIALS AND NANOTECHNOLOGY)</b> <i>Chair: Fabio Faraguna</i>	<b>A-03 (3F)</b>
17.00– 17.20	<b>Ivana Panžić</b> Environmentally friendly lead-free thin films for high-performance dielectric capacitors	
17.20 – 17.40	<b>Mia Mesić</b> The influence of preparation parameters on the morphology and ferroelectric properties of metal-organic thin films based on bicyclic amines	
17.40 – 18.00	<b>Sanja Burazer</b> Understanding battery failure mechanisms through structure changes during operando XRD measurements	
18.00 – 18.20	<b>Andrea Szpecht</b> Unlocking the potential of ionic liquids in epoxy resin design and composite performance	



# Thursday, September 4, 2025

8.00 – 9.00	Registration	Atrium of 3F ①
9.00 – 10.00	<b>PLENARY LECTURE</b> <b>Boelo Schuur</b> CHALLENGES & DIRECTIONS TO CONVERT LINEAR PRODUCTION INTO CIRCULAR & BIOBASED <i>Chair: Vesna Tomašić</i>	<b>A-02 (3F)</b>
10.00 – 10.30	Coffee Break	
10.30 – 12.30	<b>A – CHEMISTRY</b> <i>Chair: Karl Gademann</i>	<b>A-02 (3F)</b>
10.30 – 11.00	<b>INVITED LECTURE</b> <b>Nikola Basarić</b> Bodipy compounds: fluorescent labels, photocages and potential drugs	
11.00 – 11.30	<b>INVITED LECTURE</b> <b>Ines Primožič</b> New class of therapeutics for Alzheimer's disease symptom control	
11.30 – 12.10	<b>ORAL PRESENTATIONS (A – CHEMISTRY)</b> <i>Chair: Danijela Musija</i>	<b>A-02 (3F)</b>
11.30 – 11.50	<b>Antea Hrepić</b> Modern approaches to laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) analysis	
11.50 – 12.10	<b>Sara Krivačić</b> Carbonized metal-organic frameworks as ultra-hydrophobic solid transducer in potentiometric potassium probes	

<b>10.30 – 12.10</b>	<b>C – MATERIALS AND NANOTECHNOLOGY</b> <i>Chair: Matko Erceg</i>	<b>A-01 (3F)</b>
<b>10.30 – 11.00</b>	<b>INVITED LECTURE</b> <b>Vilko Mandić</b> Optimising the device architecture for small molecule bulk-heterojunction photovoltaics	
<b>11.00 – 11.30</b>	<b>INVITED LECTURE</b> <b>Lidija Ćurković</b> Microwave-assisted synthesis and application of a molecularly imprinted core-shell photocatalyst	
<b>11.30 – 12.10</b>	<b>ORAL PRESENTATIONS (C – MATERIALS AND NANOTECHNOLOGY)</b> <i>Chair: Nataša Stipanelov Vrandečić</i>	<b>A-01 (3F)</b>
<b>11.30 – 11.50</b>	<b>Marijana Đaković</b> From mechanical properties to atomic-level mechanism of elastically flexible crystals	
<b>11.50 – 12.10</b>	<b>Martina Perić Bakulić</b> Harnessing optical properties of quantum noble metal bio-nano hybrids	
<b>10.30 – 12.10</b>	<b>D – ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT</b> <i>Chair: Ivona Nuić</i>	<b>A-03 (3F)</b>
<b>10.30 – 11.00</b>	<b>INVITED LECTURE</b> <b>Ivana Grčić</b> Photocatalytic decomposition of methane as a technology for reducing emissions from low-methane municipal waste landfills	
<b>11.00 – 11.30</b>	<b>INVITED LECTURE</b> <b>Gordana Pehnec</b> Polycyclic aromatic hydrocarbons in particulate matter and total deposited matter in Croatia	
<b>11.30 – 12.10</b>	<b>ORAL PRESENTATIONS (D – ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT)</b> <i>Chair: Marina Trgo</i>	<b>A-03 (3F)</b>
<b>11.30 – 11.50</b>	<b>Andrea Špoljarić</b> Development and evaluation of nZVI-based materials for arsenate removal from water: Adsorption performance	

<b>11.50 – 12.10</b>	<b>Patrik Bubalo</b> Effect of process parameters on removal of acetamiprid with nanofiltration membranes
<b>12.10 – 13.30</b>	<b>Lunch</b>
<b>13.30 – 14.30</b>	<b>PLENARY LECTURE</b> <b><i>Pablo Dominguez de Maria</i></b> <i>CHALLENGING SUSTAINABILITY: ESTIMATING THE CO<sub>2</sub> PRODUCTION IN (BIO)CATALYTIC REACTIONS</i> Chair: Zvezdana Findrik Blažević <b>A-02 (3F)</b>
<b>14.30 – 15.00</b>	<b>Coffee Break</b>
<b>14.30 – 16.00</b>	<b>POSTER PRESENTATIONS</b>
<b>17.00 – 20.00</b>	<b>Excursion</b>
<b>21.00 – 24.00</b>	<b>Gala Dinner</b>

# Friday, September 5, 2025

9.00 – 10.00	<b>PLENARY LECTURE</b> <b>Jiří Kaleta</b> <i>SURFACE-MOUNTED MOLECULAR DEVICES</i> Chair: Katarina Varga	<b>A-02 (3F)</b>
10.00 – 10.30	<b>Coffee Break</b>	
10.30 – 11.40	<b>A – CHEMISTRY</b> Chair: Zoran Kokan	<b>A-02 (3F)</b>
10.30 – 11.00	<b>INVITED LECTURE</b> <b>Ivana Brekalo</b> The use of templates in the mechanochemical synthesis of Zeolitic Imidazolate Frameworks	
11.00 – 11.40	<b>ORAL PRESENTATIONS (A – CHEMISTRY)</b> Chair: Zoran Kokan	<b>A-02 (3F)</b>
11.00 – 11.20	<b>Nela Malatesti</b> Tripyridyl porphyrins in photodynamic therapy on melanoma cells under the CoCl <sub>2</sub> -induced hypoxia	
11.20 – 11.40	<b>Nataša Šijaković Vujičić</b> Self-sorting versus co-assembly: Structural insights into supramolecular oil gels	
10.30 – 11.20	<b>ORAL PRESENTATIONS (B – CHEMICAL ENGINEERING AND BIOTECHNOLOGY)</b> Chair: Bruno Zelić	<b>A-01 (3F)</b>
10.30 – 11.00	<b>INVITED LECTURE</b> <b>Torsten Mayr</b> Shining light on microbioreactors: Exploring the power of optical sensing	
11.00 – 11.20	<b>ORAL PRESENTATIONS (B – CHEMICAL ENGINEERING AND BIOTECHNOLOGY)</b> Chair: Anita Šalić	<b>A-01 (3F)</b>
11.00 – 11.20	<b>Desislava Yordanova Apostolova</b> Electrocatalytic approaches to high-efficiency hydrogen peroxide generation in microfluidic systems	



<b>11.20 – 12.20</b>	<b>ORAL PRESENTATIONS (C – MATERIALS AND NANOTECHNOLOGY)</b> <i>Chair: Ladislav Vrsalović</i>	<b>A-03 (3F)</b>
<b>11.20 – 11.40</b>	<b>Mateja Filković</b> Challenges of glass as a primary packaging material in pharmaceutical industry	
<b>11.40 – 12.00</b>	<b>Jakov Tenžera</b> Improvements of tin halide perovskite thin films by crystallization mediators and plasma-assisted crystallization	
<b>12.00 – 12.20</b>	<b>Grgur Mihalinec</b> Perovskite-based anodes: a new hope for next-gen lithium-ion batteries	
<b>12.40 – 13.00</b>	<b>Closing ceremony and poster awards</b>	<b>A-02 (3F)</b>

<b>8.45 – 13.45</b>	<b>E – EDUCATION</b> <i>Chairs: Olgica Martinis and Željka Soldin</i>	<b>Science School Split</b>
<b>8.45 – 9.00</b>	<b>OPENING CEREMONY</b>	
<b>9.00 – 9.45</b>	<b>PLENARY LECTURE</b> <b>Vladislav Tomišić</b> CONDUCTIVITY OF ELECTROLYTE SOLUTIONS: MACROSCOPIC AND MICROSCOPIC VIEWS ON THE MOTION OF IONS UNDER THE INFLUENCE OF AN ELECTRIC FIELD	
<b>9.45 – 10.45</b>	<b>INVITED LECTURE</b> <b>Ante Kolak</b> Strengthening basic teaching competencies in chemistry teaching	
<b>10.45 – 12.15</b>	<b>INVITED LECTURE</b> <b>Vladimir Stilinović</b> New recommendations for Croatian nomenclature of inorganic chemistry	
<b>12.15 – 13.45</b>	<b>WORKSHOPS</b>	
	<b>Innovative Pedagogy – Chemistry Board Games</b> <i>Milan Nikolić</i>	
	<b>Pub Quiz – Chemical Elements</b> <i>Vladimir Stilinović</i>	

**13.45 – 14.45** **Poster session and lunch break**

**14.45 – 16.00** **ORAL PRESENTATIONS (E – EDUCATION)**

*Chair: Olgica Martinis and Željka Soldin*

**Science School Split**

**14.45 – 15.00** **Ana Magovac**

Integrated approach to teaching radioactivity: Connecting chemistry and physics for better understanding

**15.00 – 15.15** **Đani Škalamera**

Lego photometer as a tool for studying chemical reaction kinetics

**15.15 – 15.30** **Marijana Žgela Putniković**

Green chemistry in high school experiments

**15.30 – 15.45** **Tajana Kovačević**

Differentiated teaching of chemistry

**15.45 – 16.00** **Final remarks and closing**

## POSTER SCHEDULE

**Wednesday, September 3, 2025**

Section: CHEMISTRY

**Thursday, September 4, 2025**

Section: CHEMICAL ENGINEERING AND BIOTECHNOLOGY

Section: MATERIALS AND NANOTECHNOLOGY

Section: ENVIRONMENTAL PROTECTION AND SUSTAINABLE DEVELOPMENT

**Friday, September 5, 2025**

Section: EDUCATION

# POSTER PRESENTATIONS

CHEMISTRY	
P-A01	<b><u>Marija Alešković, Jasna Alić, Wolfgang E. Ernst, and Marina Šekutor</u></b> Emergence of diamondoid clusters in helium nanodroplets
P-A02	<b><u>Petra Bajt, Ivančica Vicković, Jelena Kovačić, Petra Turčić, Daniela Amidžić Klarić, and Ana Mornar Turk</u></b> Deucravacitinib Tablet Dosage Forms: Achieving Analytical Excellence Through a Novel HPLC-DAD Method
P-A03	<b><u>Konrad Barnowski, Łukasz Skalniak, Katarzyna Nakielska, Anna Stasiłowicz-Krzemień, Judyta Cielecka-Piontek, and Jacek Plewka</u></b> Natural Compounds as LAG-3 Inhibitors in Cancer Immunotherapy
P-A04	<b><u>Maja Biočić Šormaz, Dora Županović, and Lea Kukoč-Modun</u></b> Development and Validation of a Flow Injection Method for the Determination of Ascorbic Acid in Pharmaceutical Preparations
P-A05	<b><u>Narendra Bisht and Nikola Topolovčan</u></b> Shortening the Linker-Distance in Binol-derived Cyclopentadiene Ligands
P-A06	<b><u>Barbara Bogović, Ivanka Jerić, and Vilko Smrečki</u></b> Fmoc Solid-Phase Synthesis and Structural Characterization of C-Glycopeptides
P-A07	<b><u>Jakov Borovec, Toni Divjak, Alma Ramić, Nika Jakobović, Bruna Bakota, Ines Primožič, and Tomica Hrenar</u></b> Machine Learning Prediction of Cholinesterase Inhibition by $\alpha$ -Benzoylamino Acetamides
P-A08	<b><u>Lidija Brkljačić and Matija Gredičak</u></b> Development of LC-MS/MS Method for Simultaneous Determination of Thiamine, Folic Acid, and Niacin in Fermented Milk Supplements Containing Probiotic Bacteria
P-A09	<b><u>Franko Burčul, Ana Vučak, Kristina Jurlina, Azra Đulović, Ivica Blažević, Petra Brzović, and Ivana Generalić Mekinić</u></b> Quantitative Determination of the Chiral Compounds in the Sea Fennel Essential Oil Using GC-MS/MS
P-A10	<b><u>Mia Bušljeta, Bernard Denegri, and Mirela Matić</u></b> Nucleofugality of Phenylsulfinate Leaving Group in Aqueous Acetone and Aqueous Ethanol
P-A11	<b><u>Mia Bušljeta, Mirela Matić, and Bernard Denegri</u></b> Duality in $S_N1$ and $S_N2$ Mechanisms in Reactions of Benzyl Chlorides with Amines Under Solvolytic Conditions
P-A12	<b><u>Mario Cetina, Silvija Maračić, and Silvana Raić Malić</u></b> Conformation and Supramolecular Structures of <i>n</i> -Heterocyclic Hybrids Based on 1,2,3-Triazole and Quinoline
P-A13	<b><u>Lara Čižmek, Filip Stipić, Iva Erak, and Dunja Božić</u></b> Development of a Dye Ingress Test Comparable to Microbial Ingress for Assessing Container Closure Integrity
P-A14	<b><u>Karla Čižmešija and Nataša Šijaković Vujičić</u></b> Innovative Gelled Emulsions for General Use

P-A15	<b>Marija Cvetnić, Dajana Barišić, Nikola Bregović, Vladislav Tomišić</b> Binding of Carboxylate Anions by (Thio)urea-calix[4]arenes
P-A16	<b>Vladimir Damjanović, Dino Kuzman, Marina Cindrić, and Višnja Vrdoljak</b> The Mechanochemical Synthesis of Co(III)-ammine Heteropolyoxomolybdates $[X_xMO_mO_y]^{n-}$ (X = Al, Si, Ge or Te)
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P-C15	<b>Ivana Landripet, Ivan Marić, Ivan Ilakovac, Anđela Pustak, Marijan Gotić, and Tanja Jurkin</b> Tailoring Properties of Sr-ferrite and Doped Iron Oxide Nanoparticles for Hyperthermia Effect
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Naš dinamičan tim stručnjaka uvest će Vas u svijet vodećih svjetskih tehnologija i inovacija te upravo za Vaše potrebe predložiti najbolje rješenje, a prodajni savjetnici s dugogodišnjim iskustvom stoje Vam na raspolaganju za sve informacije vezane za program prodaje instrumenata, potrošnog materijala i rezervnih dijelova te ideja za provedbu projekata.



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# Doprinos društvu kroz znanost i tehnologiju

Shimadzu je vodeći svjetski proizvođač analitičkih i mjernih instrumenata. Nudimo sofisticirana i optimalna rješenja neophodna za istraživanje, razvoj i kontrolu kvalitete.

## Naša rješenja!

**Sustavi za plinsku kromatografiju (GC)** osiguravaju pouzdanu i osjetljivu analizu hlapljivih spojeva sadržanih u uzorku.



**Masena spektrometrija s induktivno spregnutom plazmom (ICP-MS)** je tehnika u kojoj se induktivno spregnuta plazma koristi kao ionizacijski izvor, a detekcija se vrši masenom spektrometrijom.



**Spektrofotometri** mjere intenzitet svjetlosti koju apsorbiraju ili emitiraju kemijske tvari.



**Analizatori ukupnog organskog ugljika (TOC)** mjere ukupnu količinu organskog ugljika u vodi, plinovima i čvrstim tvarima. Zadovoljavaju raznolik raspon potreba u područjima kao što su istraživanje okoliša, kontrola kvalitete i upravljanje procesima.

**Sustavi za plinsku kromatografiju - masenu spektrometriju (GC/MS)** omogućuju brzu identifikaciju nepoznatih komponenti i preciznu kvantitativnu analizu, čak i za komponente u tragovima.



**Sustavi za visoko učinkovitu tekućinsku kromatografiju (HPLC)** podržavaju širok raspon aplikacija, uključujući analizu hrane, lijekova te uzoraka iz okoliša.



**Sustavi za tekućinsku kromatografiju (LC)** uspješno razdvajaju tvari na osnovi razmjesta između čvrste stacionarne faze i tekuće mobilne faze.



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